

## Voyageurs National Park, Boundary Metadata

### Identification\_Information:

#### Citation:

##### Citation\_Information:

Originator: VOYAGEURS NATIONAL PARK

Publication\_Date: 19990411

Title: Voyageurs National Park - Park Boundary

Geospatial\_Data\_Presentation\_Form: Map

##### Publication\_Information:

Publication\_Place: International Falls, Minnesota 56649

Publisher: VOYAGEURS NATIONAL PARK

Online\_Linkage: [http://biology.usgs.gov/npsveg/voya/index.html#geospatial\\_veg\\_info](http://biology.usgs.gov/npsveg/voya/index.html#geospatial_veg_info)

### Description:

#### Abstract:

ArcInfo coverage displays Voyageurs National Park boundary as currently authorized. Coverage is based on 1:24K and 1:50K scale source data (e.g., paper maps and DRGs). Park boundary has not yet been surveyed.

#### Purpose:

Coverage is intended to be used as cartographic representation of Voyageurs National Park boundary.

### Time\_Period\_of\_Content:

#### Time\_Period\_Information:

##### Range\_of\_Dates/Times:

Beginning\_Date: 19790101

Ending\_Date: 19971231

Currentness\_Reference: Publication date

### Status:

Progress: In work

Maintenance\_and\_Update\_Frequency: As needed

### Spatial\_Domain:

Description\_of\_Geographic\_Extent: Voyageurs National Park, Minnesota

#### Bounding\_Coordinates:

West\_Bounding\_Coordinate: -93.194603

East\_Bounding\_Coordinate: -92.449640

North\_Bounding\_Coordinate: 48.631462

South\_Bounding\_Coordinate: 48.299489

### Keywords:

#### Theme:

Theme\_Keyword\_Thesaurus: None

Theme\_Keyword: park boundary

Theme\_Keyword: Voyageurs National park

#### Place:

Place\_Keyword\_Thesaurus: None

Place\_Keyword: Minnesota

Place\_Keyword: International Falls

Place\_Keyword: Koochiching County

Place\_Keyword: Voyageurs National Park

Access\_Constraints: None

### Use\_Constraints:

Not for use at scales greater than 50,000 without comment regarding accuracies.

### Point\_of\_Contact:

#### Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: VOYAGEURS NATIONAL PARK

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**Voyageurs National Park**

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Contact\_Position: GIS Specialist

Contact\_Address:

Address\_Type: mailing and physical address

Address: 3131 HWY 53

City: International Falls

State\_or\_Province: Minnesota

Postal\_Code: 56649

Country: USA

Contact\_Voice\_Telephone: 218 283-9821

Contact\_Facsimile\_Telephone: 218 285-7407

Contact\_Electronic\_Mail\_Address: Voya\_GIS@nps.gov

Hours\_of\_Service: M-F 0800 - 1630 (CENTRAL)

Native\_Data\_Set\_Environment:

Arc/Info coverage format d:\data\admin\boundary

Data\_Quality\_Information:

Attribute\_Accuracy:

Attribute\_Accuracy\_Report: Accuracy of area and length attributes is unknown.

Logical\_Consistency\_Report: Polygon and arc-node topology exists.

Completeness\_Report: Data set is complete.

Positional\_Accuracy:

Horizontal\_Positional\_Accuracy:

Horizontal\_Positional\_Accuracy\_Report:

Approximate horizontal accuracy is 25 meters, assuming source data meets National Map Accuracy Standards.

Vertical\_Positional\_Accuracy:

Vertical\_Positional\_Accuracy\_Report: NONE

Lineage:

Source\_Information:

Source\_Citation:

Citation\_Information:

Originator: National Mapping Division U.S. Geological Survey

Publication\_Date: 19860101

Title: 1:24000 scale 7.5 minute quadrangle

Geospatial\_Data\_Presentation\_Form: map

Publication\_Information:

Publication\_Place: Reston, VA

Publisher: U.S. Geological Survey

Source\_Scale\_Denominator: 24000

Type\_of\_Source\_Media: paper

Source\_Time\_Period\_of\_Content:

Time\_Period\_Information:

Range\_of\_Dates/Times:

Beginning\_Date: 19690101

Ending\_Date: 19861231

Source\_Currentness\_Reference: Publication Date

Source\_Citation\_Abbreviation: D7.5

Source\_Contribution:

Small area was table-digitized from quad near Rainy Lake Visitor Center.

Source\_Information:

Source\_Citation:

Citation\_Information:

Originator: Samuel R. Lammie, Voyageurs National Park

Publication\_Date: Unpublished material

Title: NPS-1 Boundary Corridor

Geospatial\_Data\_Presentation\_Form: map

Publication\_Information:

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**Voyageurs National Park**

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Publication\_Place: Not Applicable

Publisher: Not Applicable

Other\_Citation\_Details:

Boundary corridor identified by collecting GPS field data and buffering resultant centerline.

Source\_Scale\_Denominator: 12000

Type\_of\_Source\_Media: digital file

Source\_Time\_Period\_of\_Content:

Time\_Period\_Information:

Single\_Date/Time:

Calendar\_Date: 19960615

Source\_Currentness\_Reference: Ground Condition

Source\_Citation\_Abbreviation: GPS

Source\_Contribution:

Collected autonomous GPS data using Trimble XL Pathfinder GPS. Data represented new road centerline. Differentially corrected data to improve accuracies. Buffered corrected data by 400 feet to identify park boundary along road.

Source\_Information:

Source\_Citation:

Citation\_Information:

Originator: U.S. Geological Survey

Publication\_Date: 19790101

Title: 1979 Special USGS Park Map

Geospatial\_Data\_Presentation\_Form: map

Publication\_Information:

Publication\_Place: Reston, VA

Publisher: U.S. Geological Survey

Other\_Citation\_Details:

Special park map at 1:50000 scale was scanned using large format scanner at WASO GIS in Denver, CO on 9/15/1992.

Source\_Scale\_Denominator: 50000

Type\_of\_Source\_Media: digital image

Source\_Time\_Period\_of\_Content:

Time\_Period\_Information:

Single\_Date/Time:

Calendar\_Date: 19790101

Source\_Currentness\_Reference: Publication Date

Source\_Citation\_Abbreviation: USGS SPM

Source\_Contribution:

Park boundary was heads-up digitized. Since source data was prior to construction of Rainy Lake Visitor Center and prior to construction of NPS-1, other methods were required to acquire data in those areas.

Process\_Step:

Process\_Description:

Heads-up digitized park boundary using GIS software GRASS Version 4.1 and utilizing scanned park map (DRG) as Raster backdrop. Subsequently, exported to PC ArcInfo as DXF files. Imported into PC ArcInfo using DXFARC command.

Source\_Used\_Citation\_Abbreviation: USGS SPM

Process\_Date: 19921115

Process\_Contact:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: VOYAGEURS NATIONAL PARK

Contact\_Position: GIS Specialist

Contact\_Address:

Address\_Type: mailing and physical address

Address: 3131 HWY 53

City: International Falls

State\_or\_Province: Minnesota

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**Voyageurs National Park**

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Postal\_Code: 56649  
Country: USA  
Contact\_Voice\_Telephone: 218 283-9821  
Contact\_Facsimile\_Telephone: 218 285-7407  
Contact\_Electronic\_Mail\_Address: Voya\_GIS@nps.gov  
Hours\_of\_Service: M-F 0800 - 1630 (CENTRAL)

**Process\_Step:**

**Process\_Description:**

Edited 1:50K park boundary using GPS field data collected autonomously for Rainy Lake VC. Utilized park plat map as ancillary data source for constructing park boundary. Edited in PC ArcInfo.

Source\_Used\_Citation\_Abbreviation: Platt

Process\_Date: 19940915

**Process\_Contact:**

**Contact\_Information:**

**Contact\_Organization\_Primary:**

Contact\_Organization: VOYAGEURS NATIONAL PARK

Contact\_Position: GIS Specialist

**Contact\_Address:**

Address\_Type: mailing and physical address

Address: 3131 HWY 53

City: International Falls

State\_or\_Province: Minnesota

Postal\_Code: 56649

Country: USA

Contact\_Voice\_Telephone: 218 283-9821

Contact\_Facsimile\_Telephone: 218 285-7407

Contact\_Electronic\_Mail\_Address: Voya\_GIS@nps.gov

Hours\_of\_Service: M-F 0800 - 1630 (CENTRAL)

**Process\_Step:**

**Process\_Description:**

Collected autonomous GPS data using Trimble Pro XL Pathfinder unit. Data represented new NPS-1 road centerline. Field data was differentially corrected and buffered by 400 meters to delineate boundary corridor using PC ArcInfo.

Source\_Used\_Citation\_Abbreviation: GPS-Buffer

Process\_Date: 19960615

**Process\_Contact:**

**Contact\_Information:**

**Contact\_Organization\_Primary:**

Contact\_Organization: VOYAGEURS NATIONAL PARK

Contact\_Position: GIS Specialist

**Contact\_Address:**

Address\_Type: mailing and physical address

Address: 3131 HWY 53

City: International Falls

State\_or\_Province: Minnesota

Postal\_Code: 56649

Country: USA

Contact\_Voice\_Telephone: 218 283-9821

Contact\_Facsimile\_Telephone: 218 285-7407

Contact\_Electronic\_Mail\_Address: Voya\_GIS@nps.gov

Hours\_of\_Service: M-F 0800 - 1630 (CENTRAL)

**Process\_Step:**

**Process\_Description:**

Summary: 1) created initial boundary using DRG 1:50K special park map, 2) revised park boundary near Rainy Lake VC using plat map and GPS data, 3) created park boundary along NPS-1 by collecting autonomous GPS data, differentially correcting, and buffering by 400 meters along centerline.

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Source\_Used\_Citation\_Abbreviation: Summary

Process\_Date: 1997

Process\_Contact:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: VOYAGEURS NATIONAL PARK

Contact\_Position: GIS Specialist

Contact\_Address:

Address\_Type: mailing and physical address

Address: 3131 HWY 53

City: International Falls

State\_or\_Province: Minnesota

Postal\_Code: 56649

Country: USA

Contact\_Voice\_Telephone: 218 283-9821

Contact\_Facsimile\_Telephone: 218 285-7407

Contact\_Electronic\_Mail\_Address: Voya\_GIS@nps.gov

Hours\_of\_Service: M-F 0800 - 1630 (CENTRAL)

Process\_Step:

Process\_Description:

Projected from Horizontal\_Datum\_Name: North American Datum of 1927

and Ellipsoid\_Name: Clarke 1866 into NAD 1983. PRJ file as follows:

PROJCS["NAD\_1983\_UTM\_Zone\_15N",GEOGCS["GCS\_North\_American\_1983",  
DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137,298.257222101]],  
PRIMEM["Greenwich",0],UNIT["Degree",0.0174532925199433]],  
PROJECTION["Transverse\_Mercator"],PARAMETER["False\_Easting",500000],  
PARAMETER["False\_Northing",0],PARAMETER["Central\_Meridian",-93],  
PARAMETER["Scale\_Factor",0.9996],PARAMETER["Latitude\_Of\_Origin",0], UNIT["Meter",1]]

Source\_Used\_Citation\_Abbreviation: Output from above process step

Process\_Date: 20020319

Process\_Contact:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: VOYAGEURS NATIONAL PARK

Contact\_Position: GIS Specialist

Contact\_Address:

Address\_Type: mailing and physical address

Address: 3131 HWY 53

City: International Falls

State\_or\_Province: Minnesota

Postal\_Code: 56649

Country: USA

Contact\_Voice\_Telephone: 218 283-9821

Contact\_Facsimile\_Telephone: 218 285-7407

Contact\_Electronic\_Mail\_Address: Voya\_GIS@nps.gov

Hours\_of\_Service: M-F 0800 - 1630 (CENTRAL)

Spatial\_Data\_Organization\_Information:

Direct\_Spatial\_Reference\_Method: Vector

Point\_and\_Vector\_Object\_Information:

SDTS\_Terms\_Description:

SDTS\_Point\_and\_Vector\_Object\_Type: GT-polygon composed of chains

Point\_and\_Vector\_Object\_Count: 3

Spatial\_Reference\_Information:

Horizontal\_Coordinate\_System\_Definition:

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Planar:

Grid\_Coordinate\_System:

Grid\_Coordinate\_System\_Name: Universal Transverse Mercator

Universal\_Transverse\_Mercator:

UTM\_Zone\_Number: 15

Transverse\_Mercator:

Scale\_Factor\_at\_Central\_Meridian: 0.9996

Longitude\_of\_Central\_Meridian: -93

Latitude\_of\_Projection\_Origin: 0.0

False\_Easting: 500000

False\_Northing: 0.0

Planar\_Coordinate\_Information:

Planar\_Coordinate\_Encoding\_Method: Coordinate pair

Coordinate\_Representation:

Abscissa\_Resolution: .1

Ordinate\_Resolution: .1

Planar\_Distance\_Units: Meters

Geodetic\_Model:

Horizontal\_Datum\_Name: North American Datum of 1983

Ellipsoid\_Name: GRS 1980

Semi-major\_Axis: 6378137

Denominator\_of\_Flattening\_Ratio: 298.257222101

Entity\_and\_Attribute\_Information:

Detailed\_Description:

Entity\_Type:

Entity\_Type\_Label: boundary.pat

Entity\_Type\_Definition: Polygon Attribute Table

Entity\_Type\_Definition\_Source: None

Attribute:

Attribute\_Label: Area

Attribute\_Definition: Area of polygon

Attribute\_Definition\_Source: Software generated

Attribute\_Domain\_Values:

Unrepresentable\_Domain: Software computed

Attribute:

Attribute\_Label: Perimeter

Attribute\_Definition: Perimeter of polygon

Attribute\_Definition\_Source: Software generated

Attribute\_Domain\_Values:

Unrepresentable\_Domain: Software computed

Attribute:

Attribute\_Label: Boundary#

Attribute\_Definition: Internal feature number

Attribute\_Definition\_Source: Software generated

Attribute\_Domain\_Values:

Unrepresentable\_Domain: Software computed

Attribute:

Attribute\_Label: Boundary-id

Attribute\_Definition: Feature identification number

Attribute\_Definition\_Source: Software generated

Attribute\_Domain\_Values:

Unrepresentable\_Domain: User Defined

Attribute:

Attribute\_Label: Acres

Attribute\_Definition: acres attribute calculated from acres = area / 4046.87.

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Attribute\_Definition\_Source: None  
Attribute\_Domain\_Values:  
Range\_Domain:  
Range\_Domain\_Minimum: 4.45107  
Range\_Domain\_Maximum: 204176

### Distribution\_Information:

#### Distributor:

##### Contact\_Information:

##### Contact\_Organization\_Primary:

Contact\_Organization: USGS Center for Biological Informatics

Contact\_Position: USGS-NPS Vegetation Mapping Program Coordinator

##### Contact\_Address:

Address\_Type: mailing and physical address

Address: United States Geological Survey, Center for Biological Informatics

Address: MS 302, Bldg 810, Room 8000

Address: Denver Federal Center

City: Denver

State\_or\_Province: Colorado

Postal\_Code: 80225

Country: USA

Contact\_Voice\_Telephone: 303 202-4220

Contact\_Facsimile\_Telephone: 303 202-4219

Contact\_Facsimile\_Telephone: 303 202-4229

Contact\_Electronic\_Mail\_Address: gs-b-npsveg@usgs.gov

Resource\_Description: VOYA Park Boundary

#### Distribution\_Liability:

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The related graphics are intended to aid the data user in acquiring relevant data; it is not appropriate to use the related graphics as data.

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#### Standard\_Order\_Process:

##### Digital\_Form:

##### Digital\_Transfer\_Information:

Format\_Name: HTML

##### Digital\_Transfer\_Option:

##### Online\_Option:

##### Computer\_Contact\_Information:

##### Network\_Address:

Network\_Resource\_Name: [http://biology.usgs.gov/npsveg/voya/index.html#geospatial\\_veg\\_info](http://biology.usgs.gov/npsveg/voya/index.html#geospatial_veg_info)

Access\_Instructions: Internet Access

Fees: None

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Metadata\_Reference\_Information:

Metadata\_Date: 19991101

Metadata\_Review\_Date: 20060907

Metadata\_Contact:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: USGS-NPS Vegetation Mapping Program Coordinator

Contact\_Address:

Address\_Type: mailing and physical address

Address:

U.S. Geological Survey, Center for Biological Informatics, MS 302,  
Room 8000, Building 810, Denver Federal Center

City: Denver

State\_or\_Province: Colorado

Postal\_Code: 80225

Country: USA

Contact\_Voice\_Telephone: (303) 202-4220

Contact\_Facsimile\_Telephone: (303) 202-4219

Contact\_Electronic\_Mail\_Address: gs-b-npsveg@usgs.gov

Metadata\_Standard\_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part 1:  
Biological Data Profile, 1999

Metadata\_Standard\_Version: FGDC-STD-001-1998

Metadata\_Extensions:

Online\_Linkage: <http://biology.usgs.gov/fgdc.bio/bionwext.txt>

Profile\_Name: Biological Data Profile FGDC-STD-001.1-1999